

Test Item Correlation to Basic Skills Content Standards

Date

Test item number  
 Mark + if correct, - if incorrect  
 CASAS competencies addressed ▶

| Test item number | 1                   | 2                   | 3     | 4     | 5     | 6            | 7            | 8                   | 9                   | 10                  | 11           | 12                  | 13                  | 14           | 15                  | 16           | 17                  | 18           | 19                  | 20                         | 21           | 22                         | 23           | 24           | 25           | 26           | 27                  | 28                         | 29                                | 30           | 31           | 32           |
|------------------|---------------------|---------------------|-------|-------|-------|--------------|--------------|---------------------|---------------------|---------------------|--------------|---------------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|----------------------------|--------------|----------------------------|--------------|--------------|--------------|--------------|---------------------|----------------------------|-----------------------------------|--------------|--------------|--------------|
|                  | 4.4.8, 6.5.1, 6.2.3 | 4.4.8, 6.5.1, 6.2.4 | 6.3.2 | 6.3.3 | 6.8.2 | 1.1.5, 6.1.2 | 2.3.1, 6.6.6 | 4.4.6, 6.0.2, 6.2.5 | 4.4.6, 6.7.1, 6.2.2 | 4.4.6, 6.7.1, 6.2.2 | 4.7.2, 6.4.1 | 4.7.2, 6.4.1, 6.2.3 | 4.7.2, 6.4.1, 6.2.5 | 4.7.3, 6.4.3 | 4.7.3, 6.7.5, 6.2.2 | 4.7.3, 6.7.5 | 4.7.3, 6.4.1, 6.1.1 | 6.6.3, 6.6.5 | 6.6.3, 6.6.5, 6.5.2 | 6.6.5, 6.6.3, 6.6.8, 6.4.6 | 6.6.5, 6.6.8 | 6.6.5, 6.6.1, 6.6.2, 6.1.5 | 6.5.2, 6.6.5 | 6.5.3, 6.0.4 | 6.6.1, 1.1.2 | 6.6.1, 1.1.2 | 4.2.1, 6.3.3, 6.4.1 | 6.6.3, 6.6.5, 6.5.2, 6.3.3 | 6.6.3, 6.6.5, 6.5.2, 6.4.6, 6.3.3 | 6.6.6, 6.2.4 | 6.6.6, 6.2.3 | 6.5.3, 6.0.4 |
|                  | 3                   | 3                   | 0     | 0     | 3     | 3            | 3            | 2                   | 2                   | 2                   | 2            | 2                   | 2                   | 2            | 2                   | 2            | 3                   | 5            | 5                   | 5                          | 5            | 5                          | 5            | 3            | 3            | 3            | 2                   | 3                          | 3                                 | 3            | 3            | 3            |

TO USE AS A CHECKLIST:

- Review test results. At top, mark items + or - .
- Highlight dots for items answered correctly or incorrectly, depending on overall test performance.
- At left, check standards frequently missed to target in instruction. Compare to total\* times standard appears.  
 (Use Competency Matrix to assess performance by competency.)

| Total* | Basic Skills Content Standard  | Task ▶ |
|--------|--|--------|
| 1      | M1.3.7 express a relation between two quantities as a fraction or fractional estimate (54 of 352 graduates = 54/352; or about 1/6) |        |
| 1      | M1.3.10 add and subtract fractions and mixed numbers with different denominators   |        |
| 1      | M1.3.11 relate multiplication of fractions and division (i.e., multiplying by 1/4 is equivalent to dividing by 4)                  |        |
| 3      | M1.3.12 multiply and divide with fractions and mixed numbers   |        |
| 2      | M1.4.1 understand decimal notation and place value   |        |
| 2      | M1.4.4 read, write, order and compare decimals of three or more places   |        |
| 1      | M1.4.5 divide whole numbers and represent quotient as a decimal  |        |
| 9      | M1.4.7 add, subtract, multiply and divide decimals   |        |
| 6      | M1.4.12 use decimals in the context of measurement units   |        |
| 3      | M1.4.16 calculate with money amounts   |        |
| 1      | M1.5.5 represent decimal amounts as percents   |        |
| 1      | M1.5.7 find a given percent of a number  |        |
| 1      | M1.5.11 calculate percent of increase and decrease   |        |
| 5      | M1.5.12 apply percents to money, measurement, and other contextual situations  |        |

Task: 0 General; 1 Forms; 2 Charts, maps, consumer billings, matrices, graphs, tables; 3 Articles, paragraphs, sentences, directions, manuals; 4 Signs, price tags, advertisements, product labels; 5 Measurement scales, diagrams; 6 Oral cue.



|   |         | Test item number  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |  |  |  |
|---|---------|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|
|   |         | <i>Mark + if correct, - if incorrect</i>  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1 | M4.4.1  | understand, interpret, calculate and apply rates involving time, such as velocity (e.g., mi/hr, ft/sec, m/sec), frequency (e.g., calls/hr), consumption (e.g., cal/day, kw/hr), flow (e.g., gal/min), change (e.g., degrees/min, inches/year) |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1 | M4.5.1  | understand Fahrenheit scale, including negative temperatures  |   |   |   |   |   | • |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1 | M4.5.3  | compare and calculate with temperatures   |   |   |   |   |   | • |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 4 | M4.8.6  | calculate with inches, feet, etc.   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | •  | •  |    |    | •  | •  |    |    |    |    |    |    |    |    |  |  |  |
| 2 | M4.8.7  | compare linear measurements, including in decimal notation (e.g., tolerances)   |   |   |   |   |   |   |   | • |   | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1 | M4.8.8  | estimate equivalents between customary US and metric units of linear measure  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 2 | M4.8.12 | interpret scale drawings  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    | •  | •  |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 2 | M4.8.13 | interpret and use proportions in solving problems involving dimensions or scale   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 2 | M4.9.1  | understand concept of two and three-dimensional measurements, square and cubic units  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | •  |    | •  |    |    |    |    |    |    |    |    |    |  |  |  |
| 2 | M4.9.3  | calculate area of rectangles and other common figures, using a given formula  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | •  |    | •  |    |    |    |    |    |    |    |    |    |  |  |  |
| 1 | M4.9.5  | calculate volume and surface area of rectangular and other common shapes, using a given formula   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 2 | M4.9.6  | calculate area or volume of irregular or composite shapes by dividing the figure into parts   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    | •  | •  |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 8 | M5.1.1  | identify, count and extract data in lists, tables and charts  |   |   |   |   |   |   |   | • |   | •  | •  | •  | •  | •  | •  | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 2 | M5.1.4  | extract information from line graphs  |   |   |   |   |   |   |   |   | • | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1 | M5.2.4  | find the mean and range for a data set  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1 | M5.2.12 | understand and use the basic language of statistics to describe, communicate and discuss data   |   |   |   |   |   |   |   | • |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 2 | M5.4.1  | understand what the numbers in a data set represent   |   |   |   |   |   |   |   |   | • | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1 | M5.4.2  | understand different ways in which data can be identified, organized and formatted  |   |   |   |   |   |   |   |   |   | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |
| 1 | M6.2.2  | express the likelihood of an occurrence as a ratio fraction or a percent  |   |   |   |   |   | • |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |

FOR INSTRUCTOR USE ONLY

| <b>Summary of CASAS competencies covered on Form 18M</b>  |       |           |           |           |           |           |           |
|---|-------|-----------|-----------|-----------|-----------|-----------|-----------|
| Number in parentheses shows the number of test items addressing the competency, if more than one. |       |           |           |           |           |           |           |
| 1.1.2 (2)   | 2.3.1 | 4.2.1     | 6.0.2     | 6.2.3 (3) | 6.4.3     | 6.6.2     | 6.7.5 (2) |
| 1.1.5   |       | 4.4.6 (3) | 6.0.4 (2) | 6.2.4 (2) | 6.4.6 (2) | 6.6.3 (5) | 6.8.2     |
|   |       | 4.4.8 (2) | 6.1.1     | 6.2.5 (2) | 6.5.1 (2) | 6.6.5 (8) |           |
|   |       | 4.7.2 (3) | 6.1.2     | 6.3.2     | 6.5.2 (4) | 6.6.6 (3) |           |
|   |       | 4.7.3 (4) | 6.1.5     | 6.3.3 (4) | 6.5.3 (2) | 6.6.8 (2) |           |
|   |       |           | 6.2.2 (3) | 6.4.1 (5) | 6.6.1 (3) | 6.7.1 (2) |           |

*Refer to Competency Matrix for detailed information on competency coverage.*